**Power Indicator** 

**Hi-Fi Indicator** 

Lights up when Hi-Fi audio is

monitored in Playback Mode.

VHF/UHF Antenna

VHF/UHF Antenna

**Output Terminal** 

**Audio Output** 

Connector (L/R)

Input Terminal

**AC Power Plug** 

**Video Output** 

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Panasonic Consumer Electronics Company **Division of Matsushita Electric Corporation of America** One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company ("PSC"),

Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park. Carolina, Puerto Rico 00985

LSQT0576F S1201-1052

#### Spanish Quick Use Guide/ Guía para rápida consulta Spanish Quick Use Guide/ Guía para rápida consulta

#### CONEXIONES/CONFIGURACIÓN INICIAL (READY TO PLAY)

Realice la conexión de la antena o TV por cable antes de enchufar el cable de CA. La videograbadora iniciará automáticamente la fijación de los canales v del reloi al enchufar el cable de CA.

### CONEXIONES

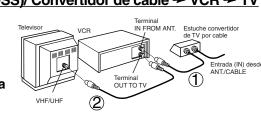
### Para Ant/Cable → VCR → TV

- (1) Conecte el cable de la antena al terminal IN FROM ANT del VCR.
- 2 Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incuido.



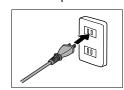
#### Para Sistema Digital de Satelite (DSS)/ Convertidor de cable → VCR → TV

- 1 Conecte la salida de convertidor de cable al terminal IN FROM
- 2 Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



#### CONFIGURACIÓN INICIAL

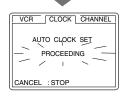
- 1 Encienda el TV v cambie al canal 3.
- 2 Enchufe el cable de CA. La videograbadora se encenderá e iniciará las fijaciones de los canales y del reloj.
- Si no aparece la pantalla de abajo, compruebe la conexión del VCR-TV v si el canal del TV está a 3, intennte cambiando al canal 4.
- · Para cambiar el canal de salida del VCR, consulte las instrucciones de "Canal de salida del VCR" en la página 12 de las operaciones avanzadas.



#### Enchufe el cable de CA.



Cambie el idioma vea la página 12



Si está usanndo un convertidor de TV por cable y en su area hay un canal de Public Broadcast Station (PBS), aiuste su convertidor al canal PBS de su area. Si está usando un receptor DSS, este debe estar apagado.

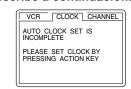
#### - PRECAUCIÓN -

Al usar cables coaxiales RF del tipo "tuerca". apriételos solamente con los dedos. Un apriete excesivo puede dañar los terminales.

3 Las fijaciones se realizan automáticamente. Cuando termina llas fijaciones, aparecerá la siguiente pantalla.



Si aparece en la pantalla "FIJACION **AUTOMATICA DEL RELOJ ES** INCOMPLETO", Ajuste el reloj como se describe a continuación.



### AJUSTE MANUAL DEL RELOJ

Si la fijación ha sido incompleta.

Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.

VCR RELOJ CANAL ELEGIR MES ELEGIR: ▲ ▼ FIJAR: ► SALIR : ACTION

2 Presione ▲ ▼ para seleccionar el mes y ▶ para ajustar. De la misma forma. seleccione y ajuste la fecha, año, hora y DST (Hora de Verano). VCR RELOJ CANAL



**3** Presione dos veces la tecla ACTION para poner el RELOJ en marcha y

#### OPERACIONES BÁSICAS PARA PROGRAMACIÓN FÁCIL PARA LA GRABACIÓN CON TEMPORIZADOR

- 1) Presione PROG.
- 2) Presione ▼ para visualizar la pantalla de Programación.
- **2** Presione PLAY para reproducir el 2 1) Para ajustar la FECHA de grabación, presione ▲▼ para seleccionar: 1-31 = una vez, o
  - LEGIR : ▲ ▼ FIJAR: ►

PROG. LISTA DIARIO = a la misma hora de lunes a viernes, o SEMANA = a la misma hora cada semana y presione ▶ para ajustar

#### Orden para elegir **Ejemplo** →8−9······31−1−2·····6−



- entrada de LINEA, y velocidad del cassette (SP. LP. SLP). Presione PROG para finalizar el programa. Presione ▲▼ para seleccionar un número que no está usando para
- ingresar mas programas y presione ▶ para ajustar. Luego repita el paso 2. Prog. LISTA Presione nuevamente P 3:20P 02 SIF PROG para salir.
- ⚠ Presione POWER off para ajustar el temporizador. (Se ilumina "TIMER" en el panel delantero)

#### REVISIÓN, REEMPLAZO O **BORRADO DE PROGRAMACIONES** (no se puede efectuar durante la grabación

**a** 1) Presione PROG.

- protección de grabación (p. 3). La alimentación del VCR se activa. En la pantalla Multi Función se ilumina

Presione ▲▼ para

FE INIC PARADA CA VEI

9:000 12:000 02:02

Seleccionar programa deseado.

2) Presione ◀ ▶ para seleccionar la

C Para reemplazar programa... 1) Presione ▶ para desplegar menu. 2) Repita paso 2 (ver

arriba) para introducir EGIR : A ▼ FIJAR: ► el nuevo programa. Para cancelar programas.. Presione ADD/DLT CANCELAR: ADD/DLT ELEGIR : ▲ ▼ FIJAR: ►

d Presione PROG Para terminar programacion.

#### PARA CANCELAR LA GRABACIÓN **CON TEMPORIZADOR** (la grabación está teniendo lugar)

Presione POWER y luego STOP dentro de los 10 segundos para cancelar la grabación con temporizador (el indicador

#### Spanish Quick Use Guide/ Guía para rápida consulta **Limited Warranty**

**DIVISION OF MATSUSHITA ELECTRIC** CORPORATION OF AMERICA Verifique los siguientes puntos una y otra ves si esta teniendo problemas con su VCR.

Secaucus, New Jersey 07094

PANASONIC CONSUMER ELECTRONICS COMPANY.

PANASONIC SALES COMPANY. **ELECTRIC OF PUERTO RICO, INC.,** Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park Carolina. Puerto Rico 00985

#### **Panasonic VHS VCR Products** Limited Warranty

f your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be

0 (4) \		
One (1) Year	Ninety (90) Days	
Video Tape (in exchange for defective video tape)  Five (5) Days  Not Applicable		
	Five (5) Days	

there will be no charge for parts. You must mail-in your product during the warranty period. f non-rechargeable batteries are included, they are not warranted This warranty only applies to products purchased and serviced in the United States or Puerto Rico.

This warranty is extended only to the original purchaser of a new product which was not sold "as is" For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company Customer Servicenter Suite B

1900 George McVay Drive McAllen, TX 78503 For assistance in Puerto Rico call Panasonic Sales Company

(787) 750-4300 or fax (787)768-2910 When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original

carton. Include a letter detailing the complaint and provide a day time phone number where you can be IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED

TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE.
CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH
PROOF OF PURCHASE.

**Limited Warranty Limits And Exclusions** 

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance. power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY" COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT. OR ARISING OUT OF ANY BREACH **OF THIS WARRANTY.** (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for

ALL EXPRESS AND IMPLIED WARRANTIES. INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's onsumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR

# **Customer Services Directory**

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: -800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST or send e-mail : consumerproducts@panasonic.com

Web Site: http://www.panasonic.com You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

1-800-332-5368 (Customer Orders Only) Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST) (Visa, MasterCard, Discover Card, American Express, Check)

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787)750-4300 Fax (787)768-2910

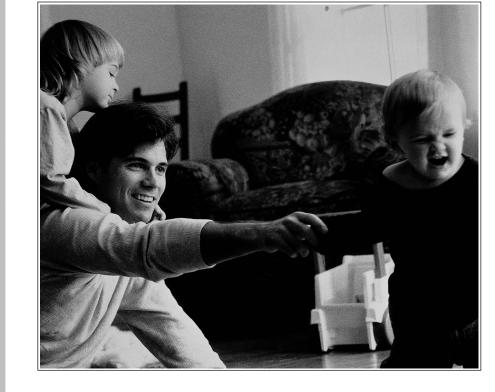
**Panasonic** 



Video Cassette Recorder

**Operating Instructions** (Basic Operations) For advanced operations, see the separate

"Advanced Operations" instruction book.



## **Table of Contents** Important Safeguards and Precautions

Before Using Connections and Initial Setup (Ready to Play) ... Playback / Record on a Tape .. Timer Recording. **Location of Controls** Spanish (Español) Quick Use Guide Limited Warranty / Customer Services Directory .... 12

As an ENERGY STAR ® Partner. Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.



Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual. Spanish Quick Use Guide is included.

(Guía para rápida consulta en español está incluida.)

As of April 2002 or assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Printed in Indonesia

Inserte una cassette, • la alimentación del VCR se activa. En la Pantalla de Visualización Multi

Función se ilumina "VCR".

A REPRODUCCIÓN

• Si el cassette no tiene lengüeta de prevención de grabación (p. 3), se inicia la reproducción automáticamente.

Detalles especiales durante la grabación ■ Presione FF o REW para búsqueda de

escenas hacia delante/ hacia atrás. Presione PLAY para liberar. Luego de que la búsqueda se ha iniciado, cada vez que presione FF o REW se cambia la velocidad como sique:

[SLP] aprox. 21X ↔ aprox. 9X [LP] aprox. 9X ↔ aprox. 7X SPI aprox. 7X ↔ aprox. 3X Si la imagen se interrumpe con la velocidad de

21x. 9x o 7x. cambie la velocidad a 9x. 7x o 3x. ■ Presione PAUSE/SLOW para imagen Fija (Congelada). Presione PLAY para liberar. ■ Presione PAUSE/SLOW en el modo

de Imagen fija para imágenes cuadro a cuadro. Presione PLAY para liberar. ■ Mantenga pulsado PAUSE/SLOW en el modo de imagen fija para imágenes

en cámara lenta. Presione PLAY para liberar. **3** Presione STOP para detener el

■ Presione REW o FF en el modo de

parada para rebobinado/avance rápido del cassette ■ Presione EJECT en el control remoto, o STOP/EJECT en el VCR para expulsar el cassette.

OPERACIONES BÁSICAS PARA LA GRABACIÓN

Inserte el cassette con lengüeta de

2 Presione CH ▲▼, o las teclas de

números para seleccionar el canal. **3** Presione SPEED para seleccionar la velocidad de grabación (p. 3)

 SP = Reproducción estándar, LP = Larga duración, • SLP = Superlarga duración.

**4** Presione REC para comenzar a grabar. Para eliminar escenas indeseadas. presione PAUSE/SLOW para pausar, y al presionar nuevamente se reanuda la grabación.

**5** Presione STOP para detener la grabación.

■ Grabación de un toque. Presione REC repetidamente para aiusta la duración de la grabación como sigue: como sigue: 30 min. → 1 hr → 1:30hr →  $2:00 \rightarrow 3:00 \rightarrow 4:00 \rightarrow Salida$ La VCR se apagara automáticamente en en intervalo seleccionado de tiempo. Ver un canal y grabar otro.

Presione VCR/TV (La indicación VCR se apagara en la visualización de Multi-Función") ►Seleccione canales de TV (Mientras permanece grabando) Seleccione canales con VCR. Presione VCR/TV (la indicación "VCR" se

→ Seleccione canales en su VCR.

encenderá en la vizualización multi-función)

IMER se apagará en la Pantalla de Multi-- 10 -

ANTES DE AL SERVICIO SOPORTE TÉCNICO

ALIMENTACIÓN DE AC

GRABACIÓN Y REPRODUCCIÓN

No se puede efectuar grabación con

o hay imagen de reproducción, o la

imagen de reproducción tiene ruidos

especiales, la imagen puede contene

algunos saltos verticales cuando se

utiliza un televisor con Control de

lo se puede controlar el VCR..

Bloqueo Vertical Automático...

CONTROL REMOTO

NO funciona el control remoto...

Los botones "ACTION" v/o "PROG"

No se pueden ver los programas en

No se puede introducir la cassette de

No se puede extraer la cassette de

La cassette de vídeo es expulsada al

dar comienzo a una grabación o al

desactivar la alimentación para la

En el modo de Detención, el motor

grabación con teporizador..

(CILINDRO) sigue girando...

el televisor

/ídeo..

En la reproducción de efectos

(REC / PLAY)

La unidad no enciende...

temporizador.

o contiene ravas..

(BO: Haga referencia en la instruciones de funcionamiento [Operaciones Básicas])

(AO : Haga referecncia el la instruciones de funcionamiento [Operaciones Avanzadas])

CORRECCIÓN

CORRECCIÓN

No se pueden grabar programas de TV | • Revise las conexiones entre VCR, antena externa o cable y TV.

intacta (BO p. 3).

correctamente. (BO p. 6)

restablecido el fluido eléctrico

(BO p. 4), o seleccione LINE Aiuste el selector VCR/TV a "VCR"

CORRECCIÓN

VCR. (BO p. 7)

"MANUAL" y luego realice el ajuste.

conectado a la toma de pared.

Revise que el cordon de alimentación de AC este correctament

Presione el botón "POWER" para el encendido de la unidad.

Verifique que la fuente de alimantación está activada

Verifique la selección de conexiones (BO p. 4, AO p. 3)

Verifique que su sistema de antenna (Cable o TV) estén

Asegúrese de que la caja de Cable/DSS (si se utiliza) se

deia encendido y está sintonizado al canal a grabar.

Ajuste las horas de comienzo y deteción de grabación

Seleccióne el canal 3 o 4 en el televisor, de modo que

Pruebe a realizar la limpieza de cabezales. (BO p. 3)

Ponga el Control de Bloqueo Vertical del televisor en

Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10)

Asegúrese de que no está funcionando una grabación con

Asegúrese de que el control remoto está en le modo de VCR.

Evite que ningún objeto interrumpa la señal del control remoto

Si ei sensor remoto recive directamente la lus del fluorescente o lu:

solar puede causar interferencia con la señal del control remoto.

Presione el botón VCR para el modo de "VCR". (AO p. 2)

Asegúrese que la TV esté conectado a la salida de la VCR (VCR Out).

Inserte el cassette con el lado de la ventana hacia arriba y la

Inserte o conecte completamente el cable de alimentación de

Verifique que no tenga ningún cassette dentro del aparato.

Asegúrese que la pestaña de grabación del cassette este intacta. (BO p. 3)

Para activar rápidamente el mecanismo de reproducción, el

cilindro sique rotando durannte 3 minutos. Esto disminuve el

tiempo de respuesta desde la parada hasta la reroducción d

hasta la el modo de búsqueda en rebobinado.

Verifique conexiones entre VCR,cable o antena y TV.

Asegúrese que la apropiada señal fue seleccionada

Ajuste el selector VCR/TV a "TV". (BO p. 5)

Verifique las conexiones entre VCR, cable o antena v TV

Revise las baterias del control remoto. (BO p. 3)

Asegúrese que la TV este encendida

pestaña de grabación frente a usted

AC a la toma de parec

Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10)

Apunte el control remoto derectamente al sensor remoto del

Asegúrese de que el aparato está encendido.

Asegúrese de que el aparato está encendido.

Revise las pilas del control remoto (BO p. 3)

Asegúrese que la pestaña en el cassette de grabación esté

Compruebe que el reloj ha sido ajustado a la hora y fecha actual.

Asegúrese de que ha apagado el VCR antes de la grabación.

La grabación con temporizador quizás no pueda realizarse o

continuarse si se produjera una interrupción de corriente antes

o durante una grabación con temporizador, incluso después de

corresponda con el canal de salida del videograbador (3 o 4)

Ajuste el control TRACKING en una de las dos direcciones. (BO p. 3

Si no puede resolver su problema, por favor comunicarse al Centro de

llamadas del Cliente para asistencia del producto al 1-800-211-PANA(7262). Para localizar un centro de servicios autorizado, llame sin costo al 1-800-211-PANA(7262) o envie un correo a : consumerproducts@panasonic.com

- 11 -

- 12 -

Model No. PV-V462

POWER SERVICE GROUN ELECTRODE SYSTEM

SAFE ANTENNA AND CABLE CONNECTION

ection 810 of the National NEC - NATIONAL CODE

charges and voltage surges.

lectrical Code, ANSI/NFPA

70 (in Canada, part 1 of the

pect to proper grounding

provides information with

of the mast and supporting

structure arounding of the

LINES OR CIRCUITS

If an outside antenna or cable system is connected to the

lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit,

KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER

connection to grounding electrodes and requirements for the

utside antenna system should be located well away

rom power lines, electric light or power circuits and where i

extreme care should be taken to avoid touching power lines.

IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR

STRONG IMPACT, unplug the unit and have it inspected by

During a lightning storm, whether indoors or outdoors, or

Never expose the unit to rain or water. DO NO

OPERATE if liquid has been spilled into the unit.

ectrical shorts caused by liquid contact inside

contact can cause electric shock or fire hazard.

Never drop or push any object through openings in the

unit. Some internal parts carry hazardous voltages and

Immediately unplug the unit, and have it inspected by a

service technician. Fire and shock hazards can result from

before leaving the unit unused for extended periods of time

nnect all equipment from the power source as well as

first to the INSTALLATION section of these safeguards.

1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR

DURING AN ELECTRICAL STORM

the antenna and cable system.

WHEN THE UNIT IS PLUGGED IN

circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should

will never come into contact with these power sources if it

so as to provide some protection against built up static

equipment, be sure the antenna or cable system is grounded

perate only from a power source indicated on

oducts Dealer verify the power source in your POLARIZED OR GROUNDING PLUG As a safety feature, this Video product come

the unit or in this manual. If necessary, have

with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug. POLARIZED PLUG CAUTION: This plug will only fit into an outlet one way. If you

cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wal outlet. Do not defeat the safety feature by tampering

POWER SOURCE CAUTION

with the plug. GROUNDING PLUG CAUTION: This plug will only fit into a three-hole grounding outlet If necessary have an electrician install the

proper outlet. Do not defeat the safety feature by ampering with the plug. POWER CORD Make sure power cords are routed so that they are not likely to have anything rest on them, ro

over them, or be in the way of walking traffic If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected. Fraved cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be eplaced by a qualified service technician. Overloaded outlets and extension cords are fire hazards and should be avoided

DO NOT BLOCK VENTILATION HOLES generated during operation. If they are blocked neat build-up inside the unit can cause failures that may result in a fire hazard or heat damag to cassettes. For protection, follow these rules Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.

b. Avoid built-in installation, such as a book

case or rack, unless proper ventilation is AVOID EXTREMELY HOT LOCATIONS OF

Do not place the unit over or near any kind of neater or radiator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may ondense in the unit and on the tane TO AVOID PERSONAL INJURY

Do not place unsecured equipment on a sloping

 Do not place this unit on any support that is not firm, level and adequately strong. The unit could fall causing serio njury to a child or adult and damage to the unit.

 An appliance and cart combination should be and uneven surfaces may cause the appliance Carefully follow all operating instructions and use the manufacturer's recomn

accessories when operating this unit or connecting it to any other equipment.

# **Safety Precautions**

on your new purchase! With proper use, this dependable product will provide years of enjoyment. Please fill in the information below. (Serial number is on tag on back of VCR.) • Date of Purchase

 Dealer Purchased From \_\_ • Dealer Address

 Dealer Phone No. • Model No. **PV-V462** 

Serial No

☐ Remote Control LSSQ0342 EJECT LIGHT  $\odot$   $\odot$ ----

To order accessories, call toll free 1-800-332-5368.

Loading the Batteries

 Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all nagnets away from electronic equipment. USING ACCESSORIES e only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards. CLEANING THE UNIT

Unplug the unit, Then, use a clean, dry, chemically eated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could overspray, or seep into the unit and cause electrical shock. Any ubstance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas nay adversely affect internal parts.

DO NOT SERVICE THIS PRODUCT YOURSELF f, after carefully following the detailed operating instructio this Video product does not operate properly, do not attempt open or remove covers, or make any adjust described in the manual. Unplug the unit and contact a

2 IF REPLACEMENT PARTS ARE REQUIRED Make sure the service technician uses only parts specified by the manufacturer, or those having the same safety naracteristics as the original parts. The use of unauthorized abstitutes may result in fire, electric shock, or other

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY After any service or repairs to the unit, request the service technicián to conduct a thorough safety check as described in the manufacture's service literature to ensure that the

video unit is in safe operating condition.

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert. Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.



user's authority to operate.

FCC Warning: Any unauthorized changes or modifications to this equipment would void the

voltage within the unit may have sufficient magnitude to cause electric shock. Therefore it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included Therefore, it should be read carefully in order

# Before Using

Congratulations

Old or damaged tapes may clog heads. **Video Head Clog Sensor** 

☐ Batteries 2 "AA"

☐ RF Coaxial

V.JAS0196

Screen-right appears during play if clogging is detected. o remove screen, press PLAY. Use "dry" type head

**Head Cleaning** 

leaning cassette only.

NEED CLEANING
PLEASE INSERT HEAD
CLEANING CASSETTE
OR REFER TO MANUAL

(Part No. NV-TCL30PT is recommended.) · Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.

Cleaning the VCR

Use soft, dry cloth or dusting attachment of a vacuum to remove dust from all cabinet vent holes. You may moisten cloth with nonabrasive antistatic cleaner/ polisher.

Approx. 23 W

Alcohol and various solvents could damage

Specifications

Power Off Approx. 3.0 W Video Recording Audio Track:

Power Source: 120 V AC. 60 Hz

Power Consumption: Power On

EIA Standard NTSC color 4 rotary heads helical scanning system 1 track (Normal) 2 channel Hi-Fi Audio Sound

Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69 CABLE Channels: Midband A ~ I (14 ~ 22) Superband J ~ W (23 ~ 36) Hyperband AA ~ EEE

Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A Ultraband 65 ~ 94, 100 ~ 125

5 °C ~ 40 °C (41 °F ~ 104 °F) Operating Humidity: 10 % ~ 75 % Weight: 2.7 kg (6.0 lbs) Dimensions

430 (W) x 98 (H) x 242 (D) mm 16-15/16" (W) x 3-7/8" (H) x

Note: Designs and specifications are subject

Features for a Quality Picture

less noise depending on the tape condition.

Automatically controls the video output signal for

Continuously analyzes the signal and adjusts for

Jse during Playback and Slow Motion mode to

control or on the VCB until the picture clears up

To return to Auto Tracking, press POWER off,

Press CH (TRACKING) ▲/▼ on the remote

V-Lock Control (to reduce picture jitter)

In Still mode, CH (TBACKING) ▲/▼ operate as a

Digital Auto Picture

Digital Auto Tracking

ptimum picture quality.

Manual Tracking Control

then on again a few seconds later

(to reduce picture noise)

educe picture noise

V-Lock control.

- 3 -

 Do not mix alkaline with manganese batteries. Prevent Accidental Tape Erasure

Break off the tab to To record again prevent recording. Cover the hole

□ Battery replacement caution

Do not mix old and new batteries.

with cellophane Screw driver

Record/Playback Time

Only use tapes with the WHS mark in this unit.			
Tape Speed	Type of Video Cassette		
Setting	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

# Connections / Initial Setup (Ready to Play)

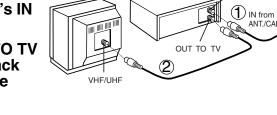
Please make all cable or antenna connections before plugging into the AC

Plugging the VCR Power Cord into an AC wall outlet starts auto channel and clock set.

Connecting

For ANT./Cable → VCR → TV (1) Connect cable from Antenna/Cable to VCR's IN

FROM ANT. jack. 2 Connect VCR's OUT TO TV jack to TV's ANT. IN jack



For DSS/Cable Box → VCR → TV

 Connect your cable box's OUT jack to the VCR's IN FROM ANT, iack with an RF

2 Connect VCR's OUT TO TV iack to TV's ANT. IN iack with included RF Cable accessorv.

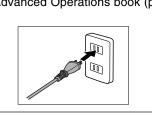
### Initial Setup (Ready to Play)

1 Turn TV on and tune to channel 3

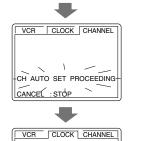
**2** Plug VCR Power Cord into AC wall outlet. VCR comes on and auto channel and clock set starts.

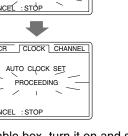
 If screen below does not appear, check VCR - TV connection and, if TV is tuned to channel 3, try switching it to channel 4

 To change VCR's output channel, please refer to "VCR's Output Channel" in Advanced Operations book (p. 12).



to change without notice. Plugging the AC Power Plug into an AC outlet





If you use a cable box, turn it on and set it to the Public Broadcasting Station (PBS) channel in your time zone. If you use a DSS receiver, it must be turned off.

- WARNING -Over tightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.

When setup is done, this screen appears.

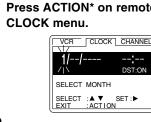
9/29/2002 SUN 2:20PM SETTING : CH 10 AUTO CLOCK SET COMPLETED

If "AUTO CLOCK SET IS INCOMPLETE" appears, manually set clock. See below



**Manual Clock Set** 

If Auto Clock Set was incomplete.



2 Press ▲ ▼ to select the month and ▶ to set. In the same manner, select and set the date, year, time, and DST (Daylight Saving Time).



3 Press ACTION to start clock and exit.

# Playback / Record on a Tape

Record on a Tape

**2** Press PLAY to play tape. • If tape has no rec. tab (p. 3), auto play begins. **Special Features During Play** 

Press FF or REW. → Press PLAY to release.

Playback a Tape

may cause tape jam.

l Insert a tape.

[SLP]: Approx.  $21X \leftrightarrow Approx. 9X$ : Approx. 9X ↔ Approx. 7X : Approx.  $7X \leftrightarrow Approx. 3X$ If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

depending on current tape position.

Press PLAY to release. Frame by Frame Picture

→ Press PAUSE/SLOW in Still mode. → Press PLAY to release.

■ Slow Motion Picture → Hold down PAUSE/SLOW in Still mode.

• These features work best in SP or SLP mode. · The sound will be muted.

Tracking Control" on p. 3. After VCB is in Still or Slow mode 3 minutes, it auto switches to Stop mode to protect the tape

**3** Press STOP to stop tape.

or STOP/EJECT on VCR to eject tape.

4 Press REC

1 Insert a tape with a record tab (p. 3).



• For "LINE" input, see p. 9 of "Advanced Operations" book If recording from a channel over 100 first press 100 key then the other 2 digits.

3 Press SPEED to select record speed (p. 3).

to start recording. • To edit, press PAUSE/SLOW to pause, and again to resume recording.

**5** Press STOP to stop recording.

One Touch Recording (record in progress) Press REC repeatedly to set length as follows: 30 min. → 1 hr. → 1:30 → 2:00 → 3:00 → 4:00 → exit

The VCR shuts off at the length set. Record one station, watch another Press VCR/TV

("VCR" goes out on Multi Function Display), - select channels on TV (recording continues). Select channels on VCR (in STOP or

PAUSE mode) Press VCR/TV ("VCR" lights up on Multi Function Display), → select channels on VCR.

 Watching one channel and recording another is not possible when using Cable **Box or DSS Receiver** 

This video recorder, equipped with

equipment. Only use tapes with the

WHS mark. Only tapes tested and

inspected for use in 2, 4, 6, and 8

hour machines are recommended.

HQ (High Quality) system, is

compatible with existing VHS

• After 5 minutes in Pause mode, VCR stops to protect the tape and the video heads.

ECT : A ▼ SET: ►

C To Replace program...

To Clear program. ■ Press ADD/DLT

**Timer Recording** 

2) Press ▼ to display program screen.

press ▲▼ to select:

or DAILY= MON~ FRI

or WEEKLY= same time

each week and **press**  $\triangleright$ .

press ▲▼ to select and

Press PROG to end programming.

**press** ▶ to set an unused program.

press ▶ to set START/ STOP times, CH(channel) or

LINE input (p. 9 of "Advanced Operations" book), and

**Cancel a Timer Recording** 

(Recording is in progress)

Function Display.)

 $1\sim31=$  one time

2) Set remaining items,

tape speed (p. 3).

Then repeat step 2.

1) Press ► to display

programs

(above) to set new

Or, press PROG to exit.

Timer Prog. LIST
OT START STOP CH SPD
13 2:00F 3:20P 02 SLP

To Enter More Programs
Press ▲▼ to select and

Review, Replace, or Clear Program

TIMER PROG. LIST Press ▲▼ to select

SUN 9:00A 12:00A 08 2) Repeat Step 2

pt start stop ch spp. desired program.

(Recording is not in progress)

2) Press ◀▶ to select LIST

2 TIMER PROG. LIST 1) Set record DATE,

Timer Recording

NCEL :ADD/DLT ELECT :A ▼ SET:►

a 1) Press PROG.

**1** 1) Press PROG\*.

CANCEL :ADD/DLT SELECT : ▲ ▼ SET: ► EXIT : PROG

**d** Press PROG to end the programming

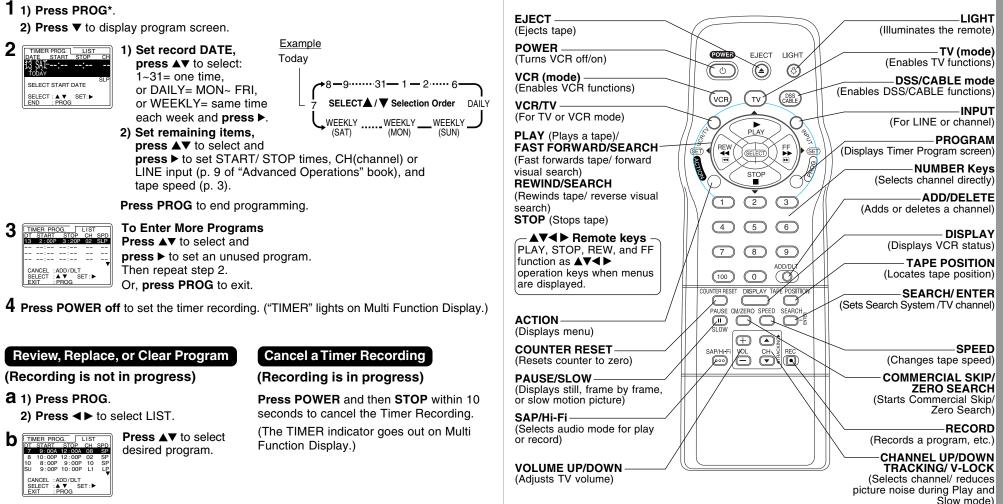
Notes

• If you are using a Cable Box, VCR Timer Programming Channel (Step 2 above) must be set to the Cable Box output channel and your Cable Box must be manually set to the desired channel. The Cable Box must be left on.

 If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears

**Location of Controls** 

**Remote Control Buttons** 



**Light Tower Universal Remote Control** 

LIGHT button: When pressed, available buttons light and selected mode button (TV, VCR, or DSS CABLE) flashes 5 seconds. If no button is pressed, light goes out in 5 seconds. Also, hold down a button to confirm the selected mode (mode button flashes) in the dark.

Cassette Compartment STOP/EJECT

EJECT button: Press to eject tape. EJECT is not available during recording

### Front View of the VCR

FORWARD 6 SEARCH Connector **SEARCH** CHANNEL UP/DOWN RECORD Remote TRACKING/ V-LOCK

\*Important: If a remote control button does not work when pressed press the VCR button on the remote and try the button again.

- 7 -

on-screen, please re-enter the timer programs

Important notes when using DSS receiver

• When recording programs via DSS receiver, DSS receiver must be left on. When recording programs via an antenna or cable, DSS receiver must be turned off.

- 5 -

press the VCR button on the remote and try the button again.

\*Important: If a remote control button does not work when pressed.

Insert a tape → Power comes on → Play starts if there is no record tab (see p. 3).

Tape end > Rewind

Play → Tape end → Rewind → Tape ejects if there is no record tab

 Loose or peeling labels 2 Press CH ▲▼ or NUMBER keys to select the channel.

Forward/Reverse Scene Search

After search has begun, each additional press of **FF** or **REW** changes speed as shown below.

Picture interruption may occur with some TVs. FF and REW search speed may vary

Still (Freeze) Picture → Press PAUSE/SLOW.

Press PLAY to release.

• To reduce picture noise, see "Manual

and the video heads.

Rewind or Fast Forward tape.

Press REW or FF in Stop mode to

■ Press EJECT on remote.

Auto Plav

Auto Rewind

Fast Forward

■ Play Auto Eject

(Repeat Play must be off)

- Auto Operation Functions

VHF/UHF

1 Press ACTION\* on remote to display VCR CLOCK CHANNEL

with included RF Cable accessorv.

3 Settings are made automatically

## **Before Requesting Service**

Check the following points once again if you are having trouble with your VCR. (BO : refers to "Basic Operations" Instruction book.) (AO refers to "Advanced Operations" Instruction book

Completely insert Dawer Diverinte on AC cutlet
<ul> <li>Completely insert Power Plug into an AC outlet.</li> <li>Set POWER button to on.</li> <li>Make sure power source is active.</li> </ul>
Correction
<ul> <li>Check connections between VCR, external antenna, and TV.</li> <li>Check connections selection. (BO p. 4, AO p. 3)</li> <li>Make sure your antenna system (CABLE or TV) is correctly set. (Channels [AO p. 12])</li> <li>Make sure cassette record tab is intact. (BO p. 3)</li> </ul>
<ul> <li>Confirm that clock is set to current time and date.</li> <li>Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.</li> <li>Set recording start/stop times correctly. (BO p. 6)</li> <li>Make sure VCR POWER button is pressed off. (BO p. 6)</li> <li>Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.</li> </ul>
<ul> <li>Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (BO p. 4) or select LINE.</li> <li>Set VCR/TV selector to "VCR."</li> <li>Adjust TRACKING control in either direction. (BO p. 3)</li> <li>Try Head Cleaning. (BO p. 3)</li> </ul>
Set TV's Vertical Hold Control to MANUAL, then adjust.
<ul> <li>Make sure VCR power is on.</li> <li>Check Remote batteries.</li> <li>Make sure VCR LOCK is set to off. (AO p. 10)</li> <li>Make sure Timer Record is not in progress.</li> </ul>
Correction
Make sure VCR power is on. Make sure Remote is in VCR mode. Aim Remote Control directly at remote sensor on VCR. (BO p. 7) Avoid any object blocking signal path. Check Remote batteries. (BO p. 3) Make sure VCR LOCK is set to off. (AO p. 10) Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
Check connections between VCR, external antenna, and TV. Press VCR button for VCR mode. (AO p. 2) Check Remote batteries. (BO p. 3)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
<ul> <li>Correction</li> <li>Make sure TV power is on.</li> <li>Make sure TV is set to output of VCR.</li> <li>Check connections between VCR, external antenna, and TV.</li> <li>Set VCR/TV selector to "TV." (BO p. 5)</li> <li>Make sure proper signal source is selected.</li> </ul>
Insert the cassette with window side up; record tab facing
you.  Check if a tape is already in the unit.
Check if a tape is already in the unit.

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262). To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262). or send e-mail to : consumerproducts@panasonic.com

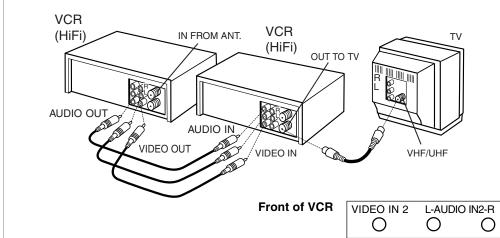
Panasonic Consumer Electronics Company, **Division of Matsushita Electric Corporation of America** One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company ("PSC"),

Division of Matsushita Electric of Puerto Rico, Inc Printed in Indonesia Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park, LSQT0577A Carolina, Puerto Rico 00985

## Copying Your Tapes (Dubbing)

(Rear connection shown.)



- Connect VIDEO OUT jack on Playing VCR to VIDEO IN jack on Recording VCR. o monitor the dubbing, also connect a TV as shown.
- (2) Connect AUDIO L/R OUT jacks on Playing VCR to AUDIO L/R IN jacks on Recording VCR.

In place of a Playing VCR, you can use other equipment, such as a Camcorder. Simply connect the unit's Audio/Video outputs to the Recording VCR.

### Playing (Source) VCR

#### Recording (Editing) VCR

(Front Audio L/R Video IN jacks

are also provided)

Insert pre-recorded tape. Insert blank tape with record tab. Press INPUT\* to set VCR Input mode to LINE1 for Video Input (Rear) or to LINE2 for Video Input (Front). (See "Selecting the Input Mode"

3 Press PLAY, then PAUSE/SLOW

Press REC, then PAUSE/SLOW immediately to enter PLAY/PAUSE mode. immediately to enter REC/PAUSE mode.

The operation of steps 4 and 5 must be done on both playing and recording VCRs at the same time.

Press PLAY to start dubbing. Playing VCR starts playback. Press PAUSE/SLOW to start dubbing. Recording VCR starts recording.

■ Selecting the Input Mode

Press INPUT repeatedly

Method 1

Method 2:

Press CH ▲ / ▼.

D

S1201-0

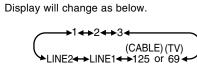
**5** Press STOP to stop dubbing Press STOP to stop dubbing.

■ To Monitor Dubbing on Your TV

**1** Turn your TV on and tune to the Recording VCR channel (CH3 or CH4).

2 Set the VCR/ TV Selector on the Recording VCR to "VCR."

Note • Dubbing tapes protected with Copy Guard will have poor quality results.



Channel Number ↔ LINE1 ↔ LINE2

- "L1" or "L2" lights on Multi-Function Display (about 4 sec.) when LINE1 or LINE2 is
- LINE1: For rear audio/video connection. LINE2: For front audio/video connection.

Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be - 9 -

# **Special VCR Features**

#### Tape Position Display Feature Weak Signal Display ON/OFF Feature

To find out the present tape position.

Tape position is displayed for VHS-C When set to "ON," picture is displayed regardless of signal strength. Cassettes type, tapes under 30 minutes, and

some other tapes, but the position is not Press ACTION to display menu.

1 Press TAPE POSITION to detect tape position. DETECTING TAPE POSITION J • "DETECTING TAPE

POSITION" only appears the first time a cassette is inserted and it takes several seconds for correct indication to appear. • The present tape position indication is displayed

• ON: Picture is displayed despite signal condition an may have poor quality. OFF: Screen turns solid blue when signal is weak or non-existent

Press ◀ ▶ to select

and display CHANNEL

Press ▲▼ to select

DISPLAY, and press

▶ to set ON or OFF.

WEAK SIGNAL

 Selecting ON has no effect on connected equipment with blue back feature.

**VCR Lock Feature** 

CR LOCK ACTIVATED

Press ACTION to return to normal screen.

When set to ON, all operations except for timer

record and tape eject are prohibited. Useful for

To turn on, hold down

(Please ignore the NO

To turn off, repeat above.

CASSETTE warning.)

mode with no tape

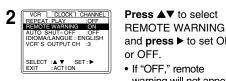
inserted for 7 sec.

REC on the VCR in Stop

## Remote Warning ON/OFF Feature

If Multi-brand feature is used (page 2), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS. or Cable mode.

Press ACTION to display menu.



**2** Press TAPE POSITION

to return to normal screen

and **press** ▶ to set ON

• If "OFF," remote warning will not appear if invalid key is pressed

**3** Press ACTION to return to normal screen.

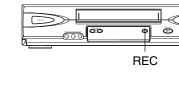
# Auto Shut-Off Feature

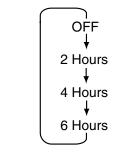
The power shuts off at a preset time.

· VCR Lock cancels in 24 hours if clock is set.

**1** Press ACTION to display menu.







**3** Press ACTION to return to normal screen.

• The shut-off countdown will not function during Play or Record.

\*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

# On-Screen Displays (OSD)

# **Function & Channel Displays**

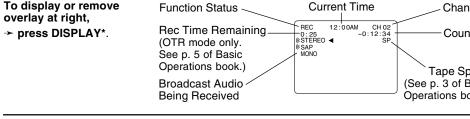
a 5 second display

Blank Tape/

is pressed, e.g. PLAY, or vou change channels.

When blank tape is detected during play, or the current channel has no signal (with Weak Signal Display feature (p. 10) set to OFF), the TV screen will turn solid blue.

#### VCR Status & Clock Displays To display or remove



**Warning and Instruction Displays** 

operation or provide further instructions.

PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set	See page 6 of Basic Operations book
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set	See page 6 of Basic Operations book
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab	See page 3 of Basic Operations book
NO CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted	See page 5 of Basic Operations book
TO CANCEL TIMER REC PRESS POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording (visible in VCR mode only)	See page 6 of Basic Operations book
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END :PLAY	If head cleaning becomes necessary while playing back a tape	See page 3 of Basic Operations book
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode	See page 10
REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY	If you press an invalid key on the remote while in CABLE/DSS mode	See pages 2, 10
REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY	If you press an invalid key on the remote while in TV mode	See pages 2, 10

\*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again

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# **Panasonic**



Video Cassette Recorder Omnivision WAS **Operating Instructions** 

For Basic operations, see the separate "Basic Operations" instruction book.

(Advanced Operations)

# Models No. PV-V462



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As an ENERGY STAR ® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR ® guidelines for energy efficiency.



Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

LSQT0577A

For assistance, please call: 1-800-211-PANA(7262) or send e-mail to: consumerproducts@panasonic.com

- 10 -

On-Screen Displays (OSD)

When a function button

No Video Signal Indications

Counter 2) **Press** ▶ repeatedly. VCR CLOCK CHANNEL Tane Speed (See p. 3 of Basic Operations book.)

These displays will alert you to a missed OSD Caution

Page ELECT :▲ ▼ SET:► 3) **Press ▲▼** to select See page 6 of press ▶. If you use Cable For Spanish

For English

SELECT : A ▼ ◀ ► EXIT : ACTION

Language

language item.

VCR CLOCK CHANNEL

SEL. :▲ ▼ REGLER:▶ QUITTER : ACTION For French

3) Press ACTION to exit.

VCR's Output Channel

PYCR CLOCK CHANNEL REPEAT PLAY OFF REMOTE WARNING ON AUTO SHUT OFF OFF IDIOMALANGUE: ENGLISH VCR'S OUTPUT CH'. 3

1) Press ▲▼ to select 1) Press ◀▶ to select

to display MENU.

Channels

CHANNEL.

WEAK SIGNAL DISPLAY:

2) Press ▲▼ to select

"ANTENNA." then

("TV" or "CABLE.")

your antenna system

press ▶ to set

SELECT : A ▼ ◀ ► EXIT : ACTION

CH AUTO SET PROCEEDING CANCEL : STOP After Channel Auto Set is finished, Auto Clock Set will be performed.

Box, set it to the

time zone.

PBS channel in your

VCR CLOCK CHANNEL

DST (Daylight Saving Time).

Reset Language, Channels, Clock, VCR's Output Channel

Clock

CLOCK.

1) Press ◀ ▶ to select

MANUAL TIME ZONE ADJUST :

SELECT : ▲ ▼ ◀ ▶ EXIT : ACTION

2) Press ▲▼ to select

"MANUAL." and press

. (For Auto Clock Set,

select "AUTO CLOCK SET.")

("TIME ZONE ADJUST"

VCR CLOCK CHANNEL

9/29/2002 SUN `2:--F

SELECT : ▲ ▼ SET: ► EXIT : ACTION

appears only when

auto clock is set.)

3) **Press ▲▼** and **⋖▶** to select and set the date, time, and 4) Press ACTION to

Time Zone

(Only when Auto Clock

1) Press ◀ ▶ to select

VCR CLOCK CHANNEL
AUTO CLOCK SET

TIME ZONE ADJUST : 0

2) **Press ▲▼** to select

ECT :A ▼ SET:►

hour(s) as necessary.

ADJUST" returns to

"0" if clock is set

and **press** ▶ to

subtract or add

3) Press ACTION.

"TIME ZONE

TIME ZONE

ADJUST'

Adiust

CLOCK.

is set.)

start the Clock and exit this mode

Add or Delete a Channel

To delete channel:

keys and press ADD/DLT.

DST (Daylight Saving Time)

VCR auto adjusts clock for DST.

Spring (First Sunday in April)

DST:ON → Sets clock ahead one hour

DST:ON - Turns clock back one hour.

If your area does not observe Daylight

Keep these time changes in mind when

programming VCR for timer recordings.

Autumn (Last Sunday in October)

Saving Time, select DST:OFF.

- 12 -

Select channel with CH ▲/▼ or NUMBER

CHANNEL 08 DELETED

1) Press ▲▼ to select "VCR'S OUTPUT CH." To add channel: VCR CLOCK CHANNEL REPEAT PLAY :OFF Select channel with NUMBER keys and press ADD/DLT. CHANNEL 08 ADDED

SELECT : ▲ ▼ SET: ► EXIT : ACTION 2) **Press** ▶.

VCR CLOCK CHANNEL IF YOU PRESS ACTION KEY, VCR'S OUTPUT CH SWITCHES TO CH 4.

3) Press ACTION. VCR CLOCK CHANNEL PLEASE TUNE YOUR TV TO

After 3 seconds

VCR CLOCK CHANNEL REPEAT PLAY :OFF SELECT :▲ ▼ SET:► EXIT :ACTION

· To Make Corrections, repeat steps 1) ~ 3).

#### **2** ■ Setup for TV control,

- → hold down TV button.
- → enter code with NUMBER keys.
- Setup for Cable or DSS control. → hold down DSS/CABLE button
- → enter code with number keys
- If code number is 100 or greater
- → press 100 key, then other digits. E.g., press 100 0 2 for 102.
- **3** Confirm code entry,
- → press POWER to turn your TV on or off.
- · See table below for controllable functions in each mode Repeat setup after remote battery replacement
  - Remote will not control every TV, cable box, or DSS made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product.

### **Using Multi-Brand Control**

After remote is set up, you can select VCR, TV, or DSS/CABLE for the desired function. Press VCR, or TV, or DSS/CABLE on the remote. (Table below shows available unit buttons for each mode.

Mode Unit	VCR	TV	CABLE/ DSS
VCR	All	VOL UP/DOWN	
TV	FF, REW, PAUSE/SLOW, REC, SPEED, CM/ZERO, COUNTER RESET, TAPE	POWER, INPUT, number keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	
CABLE/ DSS		VOL UP/DOWN	POWER, ENTER, NUMBER keys (except 100key), CH UP/ DOWN

- Not all functions listed may be controllable.
- In TV or DSS/CABLE mode, it may be necessary to press ENTER after pressing NUMBER keys for channel selection.

I V Brand Code Nu	IIIDGI Ə
Panasonic	01, 02
_	

RCA       03       Sony       08       Mitsubishi       07, 13         GE       03       Toshiba       09       Samsung       14         Zenith       04       Sanyo       10       Gold Star       15, 16, 17         Magnavox       05       Fisher       10
--

Cable Box Brand Code Numbers	
Archer	Quest         05,0           Radio Shack         51,44,59,75,12           RCA         16,17,97,16           Realistic         51,44,59,75,12           Recoton         51,44,59,75,12           Regal         14,15,28,41,102,103,104,108,15           Regency         28,15           Rembrandt         01,32,39,42,44,63,12           Salora         62           Samsung         05,32,40,42,           Scientific Atlanta         08,09,61,53,8           Sheritech         32           Signal         26,1           SL Marx         32,40,42,06,43,44,52,63,12           Sprucer         16,17,97,1           Standard Components         32,39,42,44,1           Stargate         32,39,42,44,1           Stylvania         7           Teleview         32,40,42,0           Teleview         32,40,42,0           Teleview         32,40,42,0           Tesscan         18,           Tocom         33,34,01,42,66,5           Toshiba         00           Uniden Satelite         00           Unika         01,44,63,91,12           Universal         42,43,44,52,63,12           Videoway

## **DSS Brand Code Numbers**

92   105mba	RCA97
Magnavox/ Officer 295	

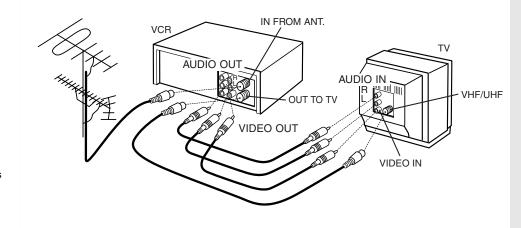
• Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one. Some TV, Cable Box and DSS Box brands require you to turn on the power manually.

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# **Advanced Connections**

#### Audio/Video connection

If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to receive higher quality picture and sound.

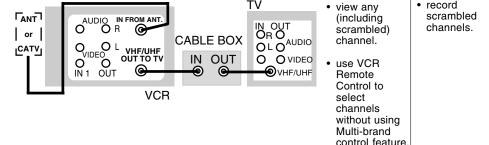


( 1 ) Connect the VCR's VIDEO OUT jack to the TV's VIDEO IN jack.

(2) Connect VCR's L/R AUDIO OUT jacks to the TV's L/R AUDIO IN jacks.

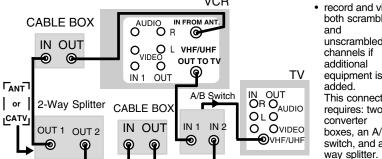
(3) Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO."

## ■ With a Cable Box (VCR → Cable Box)



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### ■ Connect With Two Cable Boxes



#### You Can You Cannot

You Can You Cannot

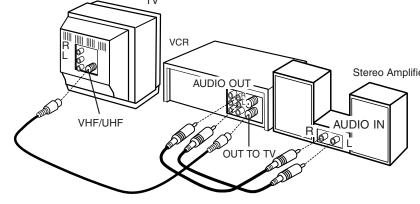
• record and view • view channel other than both scrambled the one selected for unscrambled any type of channels if additional equipment is This connection recording of requires: two converter boxes, an A/B

recordina. do a Timer a channel unless vou select if at switch, and a 2the cable box.

**MTS Broadcast** 

#### Connection

Make the Audio/Video Connection as shown on page 3. • You can use a TV connected to a Stereo amp and speakers instead of a Stereo TV.



### Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an "fk" mark while the selected audio mode is

To display the broadcast signal being received,

→ press DISPLAY\*.

#### MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select STEREO or SAP audio mode.



#### MTS Stereo broadcast

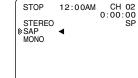
Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

 If stereo broadcast is weak and display flickers, select MONO audio mode for possibly better results.



#### **SAP** broadcast

Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.



### **MONO broadcast**

Normal monaural sound broadcast.

STOP 12:00AM CH 02 0:00:00

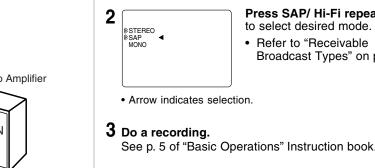
Equipped with dbx®-TV Noise Reduction for true MTS reproduction. dbx®-TV Noise Reduction is required for good stereo separation and audio fidelity. dbx<sup>®</sup> is a registered trademark, and is licensed by dox® Technology Licensing.

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# VHS Hi-Fi Stereo System

#### Audio Mode for Recording

1 Press SAP/ Hi-Fi to display audio mode. (Display disappears after 5 seconds.)



# Audio Mode for Playback

#### 1 Start playback.

See p. 5 of "Basic Operations" Instruction book.

2 Press SAP/ Hi-Fi to display audio mode. (Display disappears after 5 seconds.)



Arrow indicates

selection.

#### Press SAP/ Hi-Fi repeatedly to select desired mode.

Press SAP/ Hi-Fi repeatedly

Broadcast Types" on page 4.

to select desired mode.

Refer to "Receivable

 Select "HIFI(L/R)" or "HIFI(L)" or "HIFI(R)" to listen to stereo recordings in stereo sound. Select "NORMAL" for monaural sound.

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amp and speakers. (See page 4.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

\*Important: If a remote control button does not work when pressed,

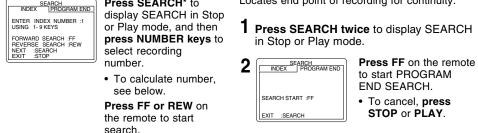
press the VCR button on the remote and try the button again.

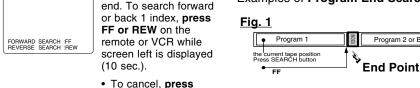
# **Tape Operation**

#### **Search System** For each recording, an invisible index mark is placed on the tape. A program index and

**Index Search** 

information are also included for timer recordings. These marks are used to access or scan recordings.





To Calculate Index Number

STOP or PLAY.

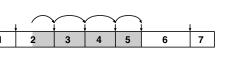
Press SEARCH\* to

Play begins at search

## Example 1:

# Example 2:

To go to rec. 6 from rec. 2, enter 4 and press



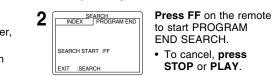
NOTE: 

indicates start points of each recording.

# Note

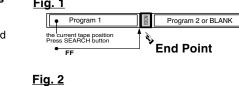
• If Index Search is started very close to an index mark, that index mark may not be counted in the search.

#### **Program End Search** Locates end point of recording for continuity.



Examples of **Program End Search**.

**End Point** 

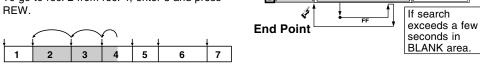


Program 1 BLANK Program 2 BLANK

the current tape position Press SEARCH button

# Fig. 3 the current tape position Press SEARCH button

#### Program 1 BLANK To go to rec. 2 from rec. 4, enter 3 and press



#### Upon locating end point, → search continues 7 sec. past end point.

→ tape rewinds to 10 sec. before end point.

→ tape plays to end point and stops.

 If Program End Search is started very close to an index mark, that mark may be skipped over.

• To cancel, press PLAY or STOP.

# **Tape Operation**

#### Repeat Play

Set to playback a recording over and over.

**1** Press ACTION to display menu.



tape end or if unrecorded portion over 30 sec. is

**3** Press ACTION to return to normal screen

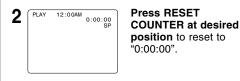
detected.

#### No indication appears.

To quickly return to a specified tape location.

to display Counter.

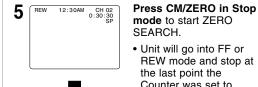
Press DISPLAY during play



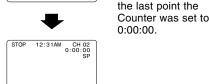
Zero Search

3 Continue to record, playback, etc.

4 Press STOP.



SEARCH. • Unit will go into FF or REW mode and stop at the last point the



**Commercial Skip** 

VCR fast forwards (skips) over 1~3 minutes of recorded tape.

**1 Press CM/ZERO** in Play mode.

 Press CM/ZERO repeatedly to change skip time as shown below.

PLAY 1st Press → 1 min Skip 2nd Press → 2 min Skip 3rd Press → 3 min Skip

\*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

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#### - 5 -